

KSC ENVIRONMENTAL CHECKLIST

1. PROJECT TITLE: FPI Solar Power Expansion		PROJECT NO.:
3. PROJECT LOCATION: <input checked="" type="checkbox"/> KSC <input type="checkbox"/> CCAFS <input type="checkbox"/> PAFB <input type="checkbox"/> OTHER: _____		4. FACILITY NAME/NO.:
5. REQUESTOR/PROJECT LEAD: <u>Mario Busacca</u> ORG/MAIL CODE: <u>TA-A3</u>		6. PHONE NO.: 867-8456
7. PREPARER OF CHECKLIST: <u>Mario Busacca</u> ORG/MAIL CODE: <u>TA-A3</u>		8. PHONE NO.: 867-8456
<p>9. PROJECT DESCRIPTION: (Provide site plans, maps, etc. as separate attachment(s)) Florida Power and Light (FPL) currently has a land use agreement to develop approximately 100 acres of land near the south gate of KSC. They have developed about 60 acres of this area and are proposing to complete the project. However, the proposal includes an additional 30 acres (Apporiximately) to the north portion of the existing site and to the north of Jerome Road (see atached figure). This additional area contains fallow citurs groves and will become a place for exotic vegetation to accumulate. This proposal requests that this area be included in the area that FPL can develop for solar power.</p>		
<p>10. a-r. Check the appropriate box (Yes, No, Undetermined) to identify if any component of the proposed project (including, but not limited to construction, installation, demolition, removal, activation or operation) will involve any of the items listed. Use the attached instructions. Provide more specific information for each item marked Yes or Undetermined in the third column.</p>		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	a. <u>Construction/Modification/Demolition</u> : Constructing, altering, expanding, modifying (other than routine maintenance) or demolishing any building, pavement or structure.	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	b. <u>Land Impacts</u> : Land disturbance, soil addition or removal, digging, grading, trenching, alteration or removal of vegetation, equipment/material staging area required, stockpiling and any activity in or near surface water (including ditches and low-lying areas).	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	c. <u>Hazardous Material and Hazardous, Controlled, or Universal Waste</u> : Use, storage, generation and/or disposal of any hazardous or toxic material, petroleum products or paint coatings.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	d. <u>Asbestos Containing Material (ACM)</u> : Disturbance of construction material that may contain asbestos (i.e., roofs, walls, ceilings, floor tile, piping insulation, caulk, etc.).	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	e. <u>PCBs</u> : Disturbance or replacement of electrical distribution systems, communication systems, lightning protection, transformers, non-liquid PCB materials or any other items believed to contain PCBs, including paint coatings.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	f. <u>Painting</u> : Initial application or repainting of a facility (interior or exterior), structure or utility.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	g. <u>Paint, Sealant, Caulking Removal</u> : Includes surface preparation such as sandblasting, scraping, water blasting or chemical stripping of existing paint coatings. Specify method.	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	h. <u>Dewatering</u> : Use of conventional wellpoints, hydraulic pumps, or other means to transfer groundwater (including water in utility manholes) for project activities including utility trenching, foundation work, roadbed construction, stormwater treatment pond, and borrow excavation.	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	i. <u>Stormwater</u> : Construction of new building, pavement, impervious or semi-impervious surface and/or modification of an existing stormwater system. Give approximate number of square feet of impervious surface being added.	sq. ft.
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	j. <u>Drinking/FIREX Water</u> : Installation or modification of potable water system. Include diameter of new water piping if known.	inches
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	k. <u>Domestic/Industrial Wastewater</u> : Installation or modification of domestic sewer system, including septic tank systems, generation of process wastewater or modification to a system that handles or transports wastewater, including condensate lines, washdowns, outfalls, holding ponds and non-point source discharges associated with industrial applications/processes.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	l. <u>Air Emissions</u> : Installation or alteration of a stack, scrubber, exhaust fan, vent, generator, fume hood, cooling tower, boiler, halon fire suppression system, HVAC system, refrigeration system; or discharge from painting or sandblasting. Describe emission source.	
<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> UNDETERMINED	m. <u>Open Burning</u> : Burning of any land clearing debris.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	n. <u>Tanks</u> : Construction, modification, or repair of above or underground storage tanks (including piping and/or containment). Type commodity stored and capacity here.	gallons

<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	o. <u>Transformers/Generators</u> : Installation, replacement or repair of transformers, generators, or any other oil-filled equipment. Give capacity.	gallons
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	p. <u>Exterior Lighting</u> : Installation, refurbishment or modification of exterior lighting.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	q. <u>Radiation</u> : Generation of ionizing or non-ionizing radiation or use of any radiation source.	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNDETERMINED	r. <u>Other</u> : Please describe any other aspect of the proposed action that could potentially affect the environment. Use separate sheet if necessary.	

Proposed Expansion of FPL Solar Site



Hall, Patrice (KSC-IHA-4100)[IHA]

From: Busacca, Mario (KSC-TAA30)
Sent: Monday, March 08, 2010 10:51 AM
To: Hall, Patrice (KSC-IHA-4100)[IHA]
Subject: FW: CATEX for Phase II

Thought this might be helpful in the processing of my Checklist.
Mario

From: Shaffer, John P. (KSC-TAB1C)
Sent: Thursday, February 04, 2010 6:41 AM
To: Foster, Stacy; Busacca, Mario (KSC-TAA30); Phillips, Lynne V. (KSC-TAB1C)
Cc: Sheetz, John; [Sarah Bellmund@nps.gov](mailto:Sarah.Bellmund@nps.gov)
Subject: RE: CATEX for Phase II

If Phase II means the additional ~40 acres at the current location on SR-3, then the action is CATEX since it was covered under the original FONSI.

John Shaffer
Lead, Environmental Planning
NASA
Mailcode: TA-BI-C
Kennedy Space Center, FL
321-867-8448

From: Foster, Stacy [<mailto:Stacy.Foster@fpl.com>]
Sent: Wednesday, February 03, 2010 5:06 PM
To: Busacca, Mario (KSC-TAA30); Shaffer, John P. (KSC-TAB1C); Phillips, Lynne V. (KSC-TAB1C)
Cc: Sheetz, John; [Sarah Bellmund@nps.gov](mailto:Sarah.Bellmund@nps.gov)
Subject: CATEX for Phase II

Hello Mario,

I was hoping that you or John could help us get the process going for the categorical exclusion from the NEPA process for the Phase II solar project? Can you please tell us what you need from FPL?

Thanks

Stacy Foster
Environmental Project Manager
FPL Environmental Services
W 561-691-7065
C 772-285-5653

Avoid Verbal Orders

TO: TA-A3/Mario Busacca

DATE: 3/8/2010

FROM: TA-B1C/NEPA Compliance

SUBJECT KSC Record of Environmental Consideration (REC)

CHECKLIST #: 7829

1. PROJECT INFORMATION

Project Title: FPL Solar Power Expansion

Project Lead: Mario Busacca, TA-A3, 867-8456

Directorate Project No.: TA-05-10

EPB Reviewer: LPH

Facility No.: FPL 10-MW SOLAR PHOTOVOLTAIC FACILITY

2. NEPA DETERMINATIONS

- a. **Categorical Exclusion per 14 CFR Part 1216.305(d)**
- b. **Environmental Assessment (EA) Required per KNPR 8500.1**
- c. **Environmental Impact Statement (EIS) Required per KNPR 8500.1**
- d. **Project on CCAFS:**

3. ENVIRONMENTAL REQUIREMENTS

- a. **Non-Permit Requirements** **YES** **NO**
- b. **Permit Requirements** **YES** **NO**

This project is to be constructed on KSC lands under an Enhanced Use Lease (EUL) agreement between the lessor, NASA, Kennedy Space Center (KSC) and the lessee, Florida Power and Light Company (FPL). The KSC project point of contact has been identified as Jim Ball (or his alternate, Mario Busacca), TA-A3. The FPL POC is responsible for obtaining all applicable permits, authorizations and complying with all relevant regulations and best management practices for site development and operation as described in the lease agreement.

The lease also requires oversight of all plans and permit application submittals and other actions by the appropriate KSC Subject Matter Expert (SME) through the KSC POC. The following is a list of potential environmental requirements that may apply to this project.

2.a.1. **CATEGORICAL EXCLUSION (CATEX):** This project is categorically excluded (CATEX) as defined in 14 CFR 1216.305(d) from further NEPA review. The proposed action was covered under the original FONSI for the Environmental Assessment developed for the construction of solar photovoltaic facilities at KSC. For additional information, please contact John Shaffer of the NASA Environmental Management Branch (TA-B1C, 867-8448).

3.a.1. **HAZARDOUS/NON-HAZARDOUS WASTE:** All hazardous and non-hazardous wastes generated on KSC must be managed, controlled and disposed of properly and all associated documentation copied to KSC POC.

3.a.2. **THREATENED AND ENDANGERED SPECIES:** This project has the potential to impact protected and/or threatened and endangered species including the Eastern indigo snake and the gopher tortoise. Measures must be taken to minimize impacts to the habitat. If indications of activity by any protected species are present in the project area, the burrows must be identified and avoided if possible. If identified burrows are within the area of construction, relocation of animal in question will be required. A Biological Survey must be performed prior to commencement of this project. The NASA Environmental Management Branch will schedule a biological survey upon request (Lynne Phillips, 867-4817). Biological survey should be requested two weeks prior to start of work.

3.a.3. **TRANSFORMERS/GENERATORS:** The temporary operation of portable generators during construction are allowed and are not considered a stationary source of air emissions. New generators proposed for permanent use at the facility, and associated air emissions may require a permit determination. A construction permit may be required for diesel and/or gasoline generators (and boilers) depending on the rating. All documentation relating to the proposed generator (and/or boiler(s)) and permit application submittal (if required) should be provided to the KSC POC.

3.a.4. **CONCRETE WASHOUT:** Water used to rinse out concrete trucks and other equipment used for concrete work must not be allowed to discharge to surface waters. Concrete washout water shall be diverted to a settling pond where suspended material will settle out and the water can percolate into the ground. Concrete residue shall then be removed and disposed of properly.

Avoid Verbal Orders

TO: TA-A3/Mario Busacca

DATE: 3/8/2010

FROM: TA-B1C/NEPA Compliance

SUBJECT KSC Record of Environmental Consideration (REC)

CHECKLIST #: 7829

3.a.5. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs): Precautions must be made to eliminate or reduce to the greatest extent possible any discharge of sediments outside established project boundaries. This can be accomplished by initiating a proactive erosion control BMP. Installation and maintenance of turbidity screens (silt fences) and/or floating turbidity booms must be completed prior to initial land disturbance, and the screens must be maintained so they remain functional until such time that the newly exposed soils are stabilized with sod or natural vegetation.

3.b.1. DEWATERING: Dewatering may require a permit from state or local regulatory authorities.

3.b.2. ENVIRONMENTAL RESOURCE PERMIT (ERP) STORMWATER: This project may require an ERP for a stormwater treatment system.

3.b.3. ENVIRONMENTAL RESOURCE PERMIT (ERP) - DREDGE AND FILL: Dredge and fill permits from the St. Johns River Water Management District (SJRWMD) and the U.S. Army Corp of Engineers (USACE) may be required for this project.

3.b.4. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT: This project may require an NPDES Phase II construction permit.

3.b.5. OPEN BURNING: Every effort must be made to deliver vegetative material to the appropriate disposal area. Combustible vegetative materials may be burned within the confines of KSC or CCAFS after obtaining a burn permit issued by KSC or CCAFS. Burning may be limited or prohibited during periods of dry weather, or when sensitive flight hardware is housed in the vicinity of the burn site. Burn permits must be scheduled a minimum of 48 hours in advance, and may be requested through the Duty Officer. The Florida Division of Forestry must also be notified when burning land clearing debris and authorization obtained the same day the burn is to take place or after 4:00 pm the previous day.

3.b.6. EXCAVATION PERMIT: A KSC Excavation Permit will be required for any digging proposed by this project. Please contact the Utility Locate/Excavation Permit Request Customer Helpline at 867-2406 or go to website at <https://installationsupport.ksc.nasa.gov/sgs/apps/epr/default.cfm?> for an underground utility scan and dig permit.

No other environmental issues were identified based upon the information provided in the KSC Environmental Checklist. Please be aware that this Record of Environmental Consideration (REC) is provided to assist the project proponent in identifying potential environmental issues that may affect the project. There is the potential for issues to arise or information to become available during the planning and development process that were not identified in this REC. It is the responsibility of the project proponent to address all issues associated with the project whether previously identified or not. Additionally, this REC does not relinquish the FPL project proponent from obtaining and complying with any other internal NASA permits or directives necessary to ensure all organizations potentially impacted by this project are notified and concur with the proposed project.

Due to potential changes in regulations, permit requirements and environmental conditions, statements in this REC are valid for 6 months, and subject to review after this period. It is the responsibility of the project lead to notify the Environmental Management Branch (TA-B1C) if the scope of the project has changed since the original checklist was submitted.

cc: M. Busacca/TA-A3

- 4 Upon evaluation of the subject project, the above determinations have been made and identified. Contact the Environmental Program Office (TA-B1C) at 867-8448 for re-evaluation should there be any modifications to the scope of work.**



3/10/2010 1:29:08 PM

Lynne Phillips

Date

Avoid Verbal Orders

TO: TA-A3/Mario Busacca

DATE: 3/8/2010

FROM: TA-B1C/NEPA Compliance

SUBJECT KSC Record of Environmental Consideration (REC)

CHECKLIST #: 7829